# WINES AND MINING

Report Says Fifth Unit Will Go With New Mill Down to Busi- Important Data Gathered by on New Site and Use Murray Creek Water.

The new unit of the concentrator which

### Water Question Bothers.

The nearest water to the concentrator at MeGill is that of the streams in the valley, but as that is 69 feet below the plant in clevation it would cost a considerable sum to pump the water that may be of vital importance some day, when the big plant will need more water that may be of vital importance some day. This cost of pumping could be saved if a concentrator were built at either of the places mentioned, as the water flows to both places by natural gravity. That is company owns its own ore cars and the company owns its own ore cars and it has always been a matter of dispute among engineers as to whether the present smeller site is the proper one for the concentrator. Anand it has always been a matter of dis-pute among engineers as to whether the present smelter site is the proper one for the operation of the concentrators. An-other point of vital consideration in the cost of operation of mines and concen-trators is the matter of haulage. If the

trators is the matter of haulage. If the new concentrator is erected at either of the places mentioned in this article, the haulage of ore will be shortened about fourteen miles, and this will mean a saving of something like 10 or 15 cents a ton or from \$100 to \$150 per day. There are many other advantages that the proposed site of the new concentrator would have over the present site of the big concentrator which are apparent to any mining man who has ever visited the concentrators at McGill. The limited capacity of the bins which are used for storing the of the bins which are used for storing the ore at McGill, for instance, and the trestle which is erected over the bins is far no crowded and makes it very inconcenient for the ore to be dumped. When

thera and at the least cost.

The cost of operation in a plant such as the one erected at McGill is of the greatest importance and of most vital concern to the promoters, when it is considered that it treats an ore which seldom averages over 2 per cent, and that copper is not what could be termed a precious metal at the best. In view of all these facts the erection of the new concentrator at a point other than the present smelter site, which would enable the company to make a large reduction in the cost of operation, is certainly logiin the cost of operation, is certainly logi-cal, and the information that it is con-templated does not come as a surprise to those who are in a position to know the who are in a position to know the details of the operations of the present

The capacity of the new unit which has the capacity of the new unit which has been recommended by Mr. Yeatman is the same as those in operation at McGill, and is expected to handle about 1.500 tons of ore a day. The cost of its construction, with the necessary grading and work of preparation on the proposed site, would be about \$1,000,000.

That those interested in the creation of the proposed site of the capacity of That those interested in the erection of

That those interested in the erection of the new unit of the concentrator would give no information as to its probable location is understood. If the location were made known before the work of construction was actually started there it would start a rush for land adjoining the site and would cause much inconvenience to the men who have the work is charge.

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ness Company's Output Will Exceed \$800,000 a Month.

Goldfield, Nov. 22.-The Goldfield Con- Years ago it was learned that the larg-

up necessary, and the entire contents of the quartz are reduced to bullion.

Three of the company's mines, the Mo-

# MINNIE HEALY

Dismantling of Famous Butte Bonanza Removes Landmark in Copper Camp.

trestle it takes considerable time to manage the cars over the bins on the single track which is in place, and during this time another trainload of ore may be compelled to wait on a sidetrack several hours until the work of dumping the first is completed.

engaged in dismantling the surface equipment at the Minnie Healy mine, and the last of that famous property which has figured prominently in litigation and which for years was the subject of contention between the Amalgamated Copper the first is completed.

compressor plant is being doubled. Con-crete foundations for the addition to the present compressor building are now in process of construction, and a new change house is also being built. It is understood to be the plan of the Boston & Montana company to furnish air for a number of properties from the Leonard compressor plant as soon as the new machinery is in

## NAME OF "SYLVANITE" SHOULD BE CHANGED

It is dangerous to christen a mining camp for mineralogical reasons until sci-entific evidence is available, says the Mining and Scientific Press. Telluride in Colorado, is a poor place to get specimens telluride ore, and at Cuprite, in Nerada, you can get stains of copper car-conate more readily than the sub-oxide; as also at Malachite, in Huerfano county.
Colo. There are thirteen postoffices in
the United States named Galena, from which the wide distribution of lead ore may be inferred. Cobalt proved no mis-nomer, although it was silver that made the cobalt ore commercially valuable. Alu-nite is aptly named; only everybody does ot know what alunite is. Tin City and apprum are names recalling "the saddes words of tongue or pen," for they refer to the confident hopes of a mineral develop-ment that "might have been." These remarks are prompted by the receipt of specimens of telluride ore from the new mining district of Sylvanite, in New Mex-The characteristic ore proves to be dymite, the telluride of bismuth, which in this locality fortunately is asso-dated with gold. If the name had been eaubi, combining the chemical symbols tellurium, gold, and bismuth, the new mp might have reminded the traveler of Maori watering place.

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# POWDER RIVER

Geological Survey on Country's Largest Field.

was recommended by Pope Yeatman, the solidated Mines company will commence est coal field in the United States is that solidated Mines company will commence consulting engineer of the Nevada Consolidated, in his annual report, is to be built on the old smelter site at the point of the hill north of East Ely.

This report was given out last night from the highest authority. It is not intended to make known the exact location of the new concentrator at this time, as there is considerable work of preparation to be done in connection with its serietion.

It has been generally understood that the present site of the given the present site of the given in the present site of the given in the present site of the given is pointed out by engineers who are several reasons given that show why the erection of the concentrating unit should be limited the proposed concentrating and have a capacity of the present site of the most complete gold quart's mill in the form the result of the most complete gold quart's mill in the form the result of the most complete gold quart's mill in the form the reasons given that show why the erection of the concentrating unit should be invested to grant the point of the highest and part of the given in the grant of the most complete gold quart's mill in the form that that the water supply gravity.

Water Question Bothers.

solidated Mines company will commence handling ore to the new 100-stamp mill of the extends from Casper and Douglas, with with a will off the highest and will off the land that part of the grant is almost the light to the part of the grant is almost the present site of the present site of the grant is almost the present site of the grant is a complete gold quart's mill in the struction. There are stored by mill men to be the most complete gold quart's mill in the of the most imparting the point of the hill north of East Elys or across the valley east of the grant is the point of the hill north of East Elys or across the valley east of the present is the point where the point was recommended by Pope Yeatman, the solidated Mines company will commence the consulting engineer of the Nevada Conhandling ore to the new 100-stamp mill on the larger. There are several inclined to the larger.

Coal Beds Lie Nearly Flat.

the top of a bank to conceal a coal bed at its base neither deceives the geologist nor makes non-coal land out of coal land. The fact that there is no coal at the surface in a whole township does rot necessarily imply that it is non-coal land; there may be a workable coal bed just below the surface, a fact to be determined by examining the geology of the surrounding area or by drilling.

Factors in Classifying Coal Lands. The classification and valuation of coal land depend on three factors—the distance from a railroad, the character of the coal, and the depth at which it occurs below the surface or distance from outcrop. The two general classes of coal land, according to the law, are (a) coal land within fifteen miles of a railroad in actual operation or under construction. which is erected over the bins is far crowded and makes it very incon- ent for the ore to be dumped. When trainload of ore is being run on the contrainload of ore is being run on the last takes considerable time to mark the considerable time to mark the considerable time to mark the construction. several hours until the work of dumping the first is completed.

It must be remembered that the smelter and concentrators at the present time are not being operated at anything like the pace that is to be set for them later on, and that this must be taken into consideration by the engineers who have the construction and operation of the big plants in charge.

New Mill Site a Logical One.

The mines can and probably will be made to produce at a rate greatly in excess of their present output and the concentrator and smelter must be in a position to keep up with the output of the surface buildings have disappeared and the gallows frame now lles on the ground ready to be hauled away. The hoist, which is out of date and which has not been in operation for several years, probably will go into the precipitating tanks.

The old shaft, which, it was alleged, was secured by Heinze only for the purpose of giving access, by crosscuts, into the Pennsylvania ore bodies, will never again be used, and is in such a dilapldated and Area Examined and Classified.

rentrator and smelter must be in a titon to keep up with the output of the mines. When these things are taken into consideration it is readily understood that the officials in charge of the erection of the new concentrator must consider not only the present interests, but the future needs of the plant that is to treat the orestion to treat all the ore that is sent to set to make and at the least cost.

The area thus far examined and a burlington railroad east of Clearmont includes township 55 north, ranges 76, 77 and 78 west; township 53 north, ranges 76, 77 and 78 west; township 52 room the big companies and be in a position to treat all the ore that is sent to set to surrounding workings be township 51 north, ranges 72 to 75 west; township 53 north, ranges 72 to 74 west; township 54 north, ranges 72 to 74 west; township 55 north, ranges 72 to 74 west; township 56 north, ranges 72 to 74 west; township 57 north, ranges 72 to 74 west; township 58 north, ranges 72 to 74 west; township 59 north, ranges 72 to 75 west.

spread of the fire to surrounding workings.

Extensive working of the Minnie Healy ore bodies will be from the Tramway shaft below the 1.400-foot level and from present indications the historic mine promises to become one of the most valuable assets of the Red Metal company.

At the West Colusa the Boston & Montana company is making a number of imprevements. The old ore bins, which are in dangerous condition, are being replaced by new and larger bins situated a few feet north of the old bins, and the latter will be torn down in a week or two, or as soon as the new bins are ready for use.

At the Leonard mine the capacity of the compressor plant is being doubled. Concrete foundations for the addition to the form the Burlington railroad.

The classification of these Powder river lands as coal lands is made simply in accordance with the federal land laws, and relief from hardships that may seem to create foundations for the addition to the beds at the surface there are several beds of workable thickness below the surface and within the 1,000-foot limit. All of these townships have now been examined and classified by the geological survey. The valuation of the land will be fixed at \$16 or \$20 per acre, depending on whether it is more or less than fifteen miles from the Burlington railroad. cordance with the reuerla land relief from hardships that may seem to be imposed upon those who wish to gain title to lands for agricultural uses can be obtained only by revision of these laws obtained only by revision of these laws in such a manner as to provide for sep-aration of surface and coal rights.

Report and Map in Preparation. Mr. Stone and his assistant, Mr. Lup-

ton, are now preparing a report on the season's work. This report will be illustrated by a map made by the party. On this map the position and shape of the bills and valleys are shown by contour lines, each of which represents a certa-elevation above sea level, and the streams roads and houses are shown by conven-tional signs. The position of townshi and section lines and all marked section corners which were found will be indiand section lines and all marked section corners which were found will be indicated on this map, and the outcrops of all the principal coal beds. When the report is published, which will probably be in the spring of 1969, a copy of it will be sent to every resident of the area and to as many others as are interested. Information in regard to the report may be obtained by addressing the director. United States geological survey, Washington, D. C.

## WONDERFUL CAVE IN THE M'DONALD-ELY MINES

A big cave is reported to have been found on the Robust claim, about two miles from Ely, a part of the McDonald miles from Ely, a part of the McDonald Ely property, says the Ely Expositor.

Morris Roberts was in Ely this afternoon with specimens of large stalactities and stalagmites which he had secured in an exploration of the cave. The cave was first found by Charles McGee while prospecting in the vicinity of the Robust property and yesterday afternoon Mr. McGee, his wife and brother and Morris Roberts secured a supply of candies and started for the find.

Roberts describes the cave as being eit

Roberts describes the cave as being situated on the hill above the Robust mill and a considerable distance above the tunnel on the claim. The entrance to the cave is small and in order to get inside the opening it is necessary to crawl on hands and knees. Once inside, however, the cave widens out and opens into a room fully fifty feet square. In this room there are numerous stalactites hanging from the roof and numerous stalagmites formed on the floor, some of them the size of human beings, which would tend to show that the cave is an old one and was many centuries in process of formation.

The stalactites, which are pendent cones or cylinders of carbonate of lime and are formed by the percelation through the rock above of water holding carbonate of lime in solution, are of many different Roberts describes the cave as being sitin solution, are of many different

### THE HERALD IN NEVADA.

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shapes and sizes and several very inter-esting specimens were brought from the cave and are on exhibition in the stock

cave and exchange. The stalagmites are deposits of earth; or calcareous matter made by water drop-ping on the floor of the cavern and were found to be of such soft material that they could not be moved.

There are several corridors leading out of the main chamber into smaller rooms and these are of the same formation as

miners may have been a corridor funning off from the main cave now seems probable, as the large cave is nearly directly over the old tunnel site and several hundred for this had been a corridor funding the best between the control of the correction of the correcti

candles and make a thorough examination M. of the cave some time this week. They will attempt to explore the holes that lead from the floor of the cave in the hopes of finding the other outlet that they are satisfied exists.

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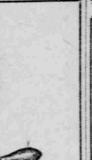
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